

PRIOR ART

FIGURE 1

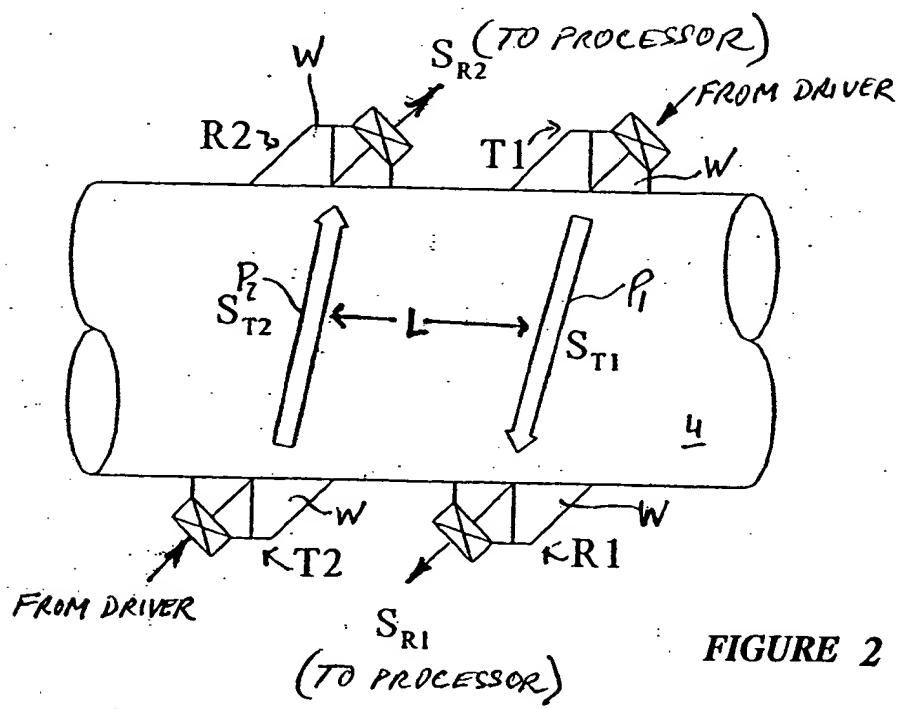


FIGURE 2

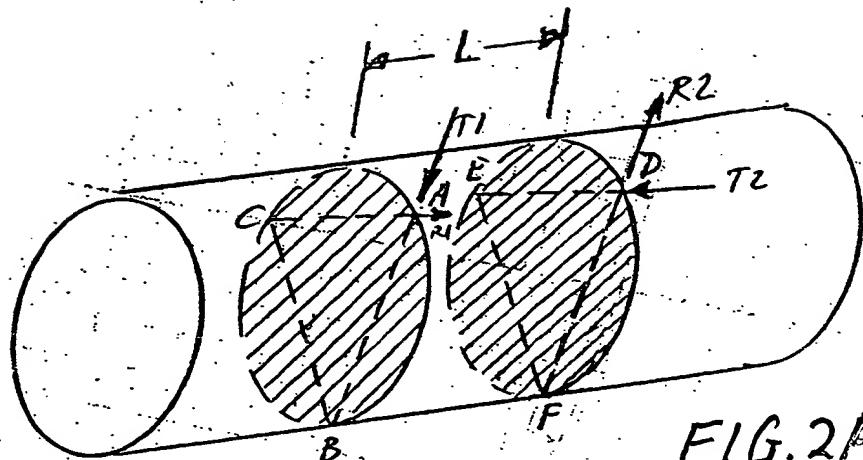


FIG. 2A

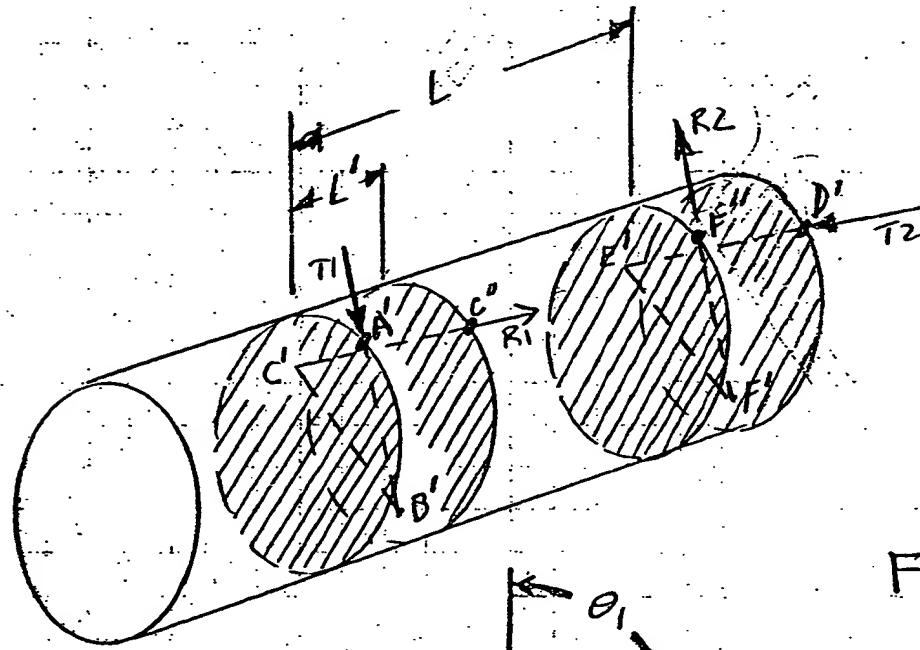


FIG. 2B

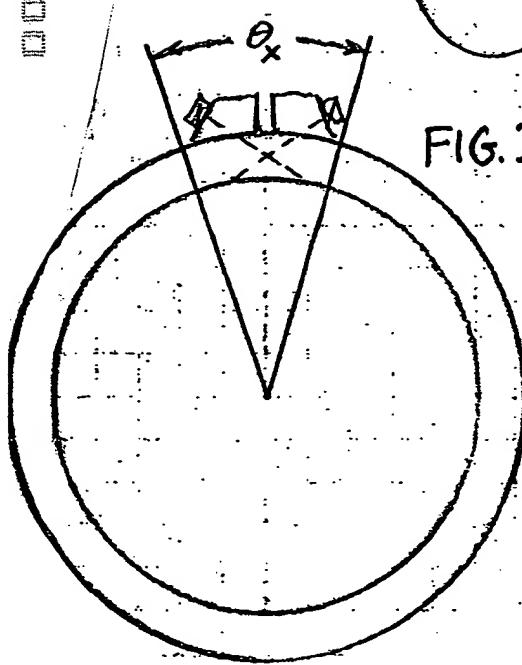


FIG. 2D

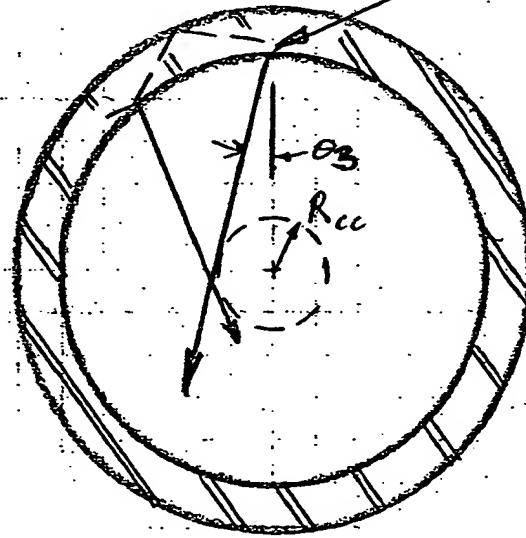


FIG. 2C

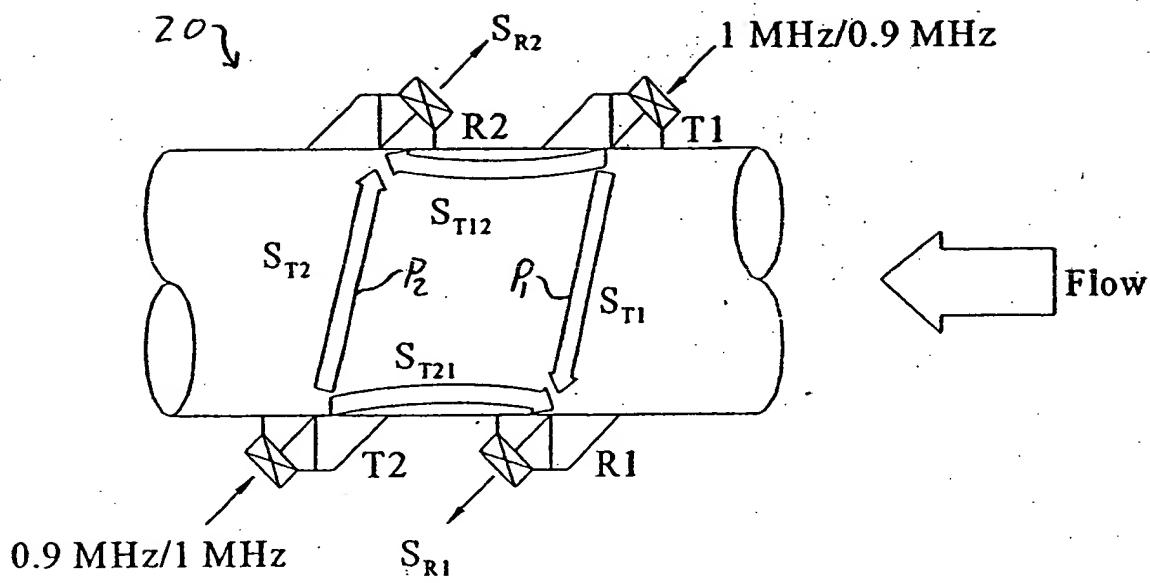


FIGURE 3A

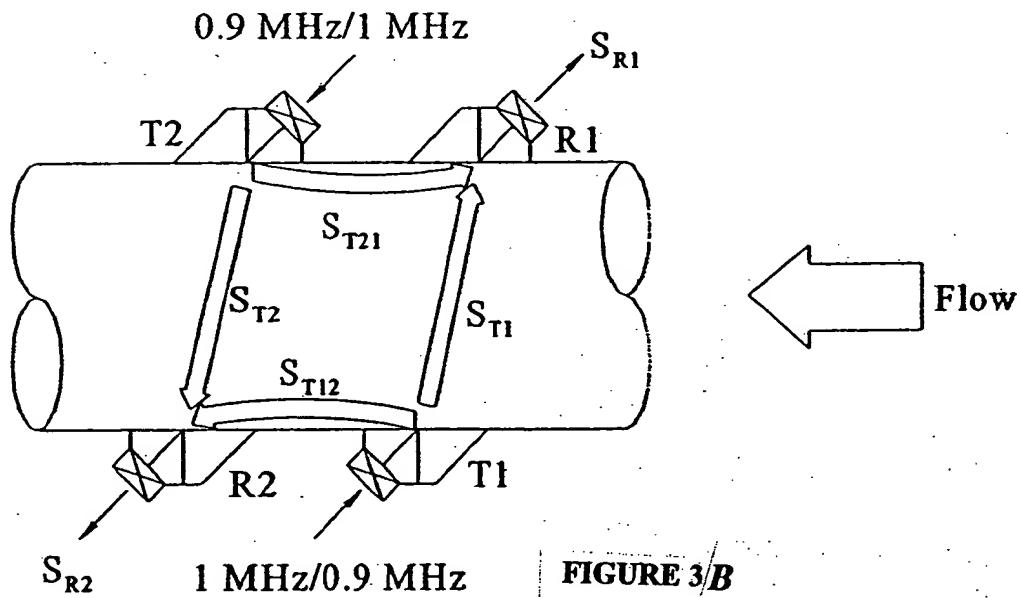


FIGURE 3B

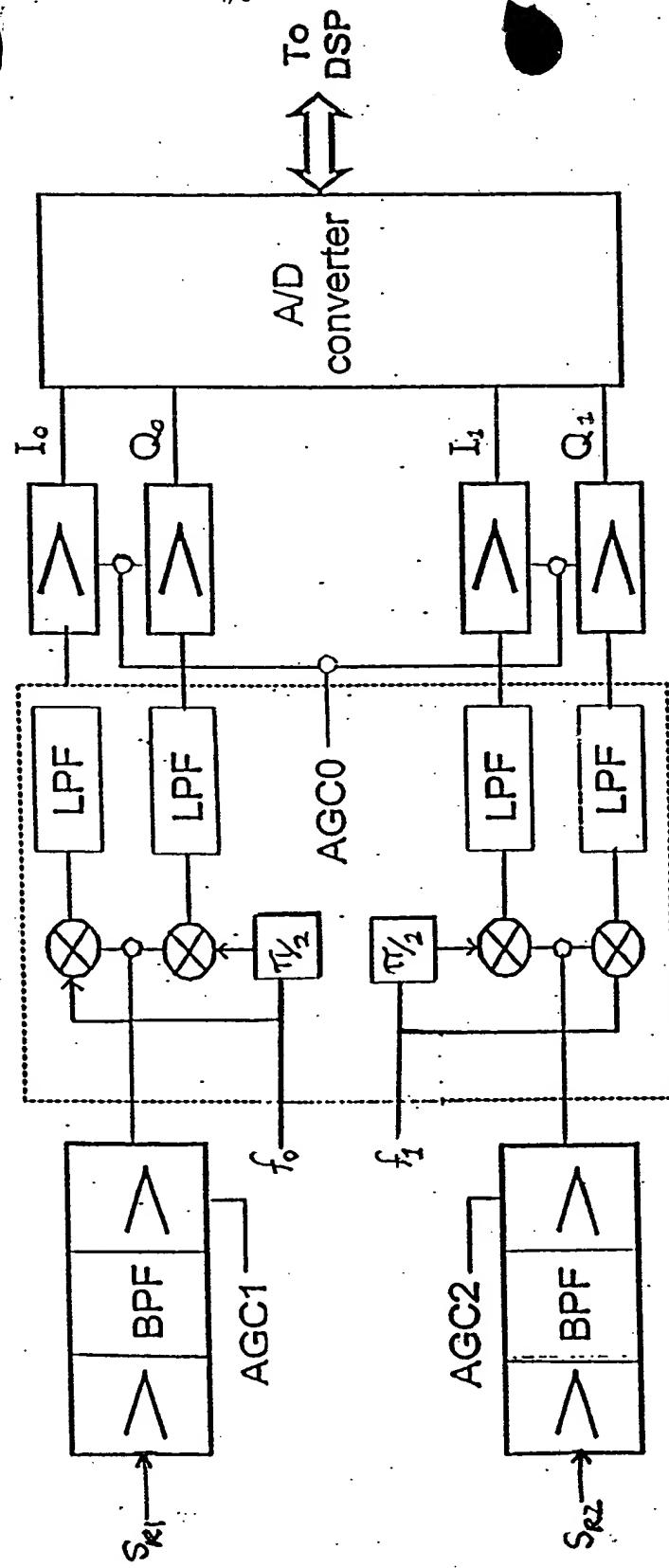


FIGURE 4

Table 1. Repeatability tests on Parallel(P) Tag and Antiparallel(AP) Tag methods.

Run Number	Motor Speed (RPM)	Velocity (ft/s)			SNR	
		Scaled Reference	Tag(P)	Tag(AP)	P	AP
1	3000	6.8	---	8.6	---	3.7
	6000	15.3	---	17.4	---	3.2
	9000	25.7	---	27.6	---	4.8
	26400	95.6	92.3	92.7	1.6	14.6
	3000	6.8	8.8	8.9	0.8	4.6
2	6000	15.3	18.3	18.2	2.2	6.2
	9000	25.7	28.9	28.4	3.1	7.7
	3000	6.8	8.8	8.8	1.7	6.1
3	6000	15.3	18.6	18.5	6.5	7.7
	9000	25.7	28.2	28.7	11.0	10.0
	3000	6.3	8.7	8.8	1.2	4.3
	4	6000	15.8	18.3	18.1	3.9
5	9000	25.3	28.2	28.1	7.3	9.7
	3000	6.8	---	8.7	---	3.8
	6000	15.8	18.7	18.1	1.1	6.8
	9000	25.3	28.4	28.2	2.9	10.4

FIGURE 5

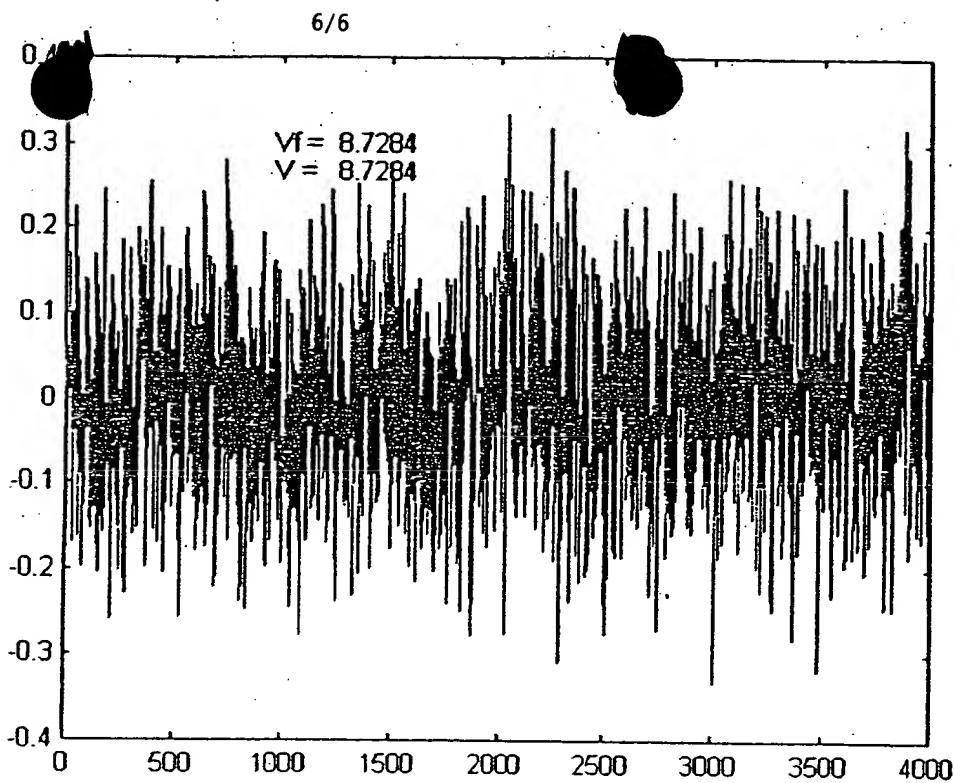


FIGURE 6A

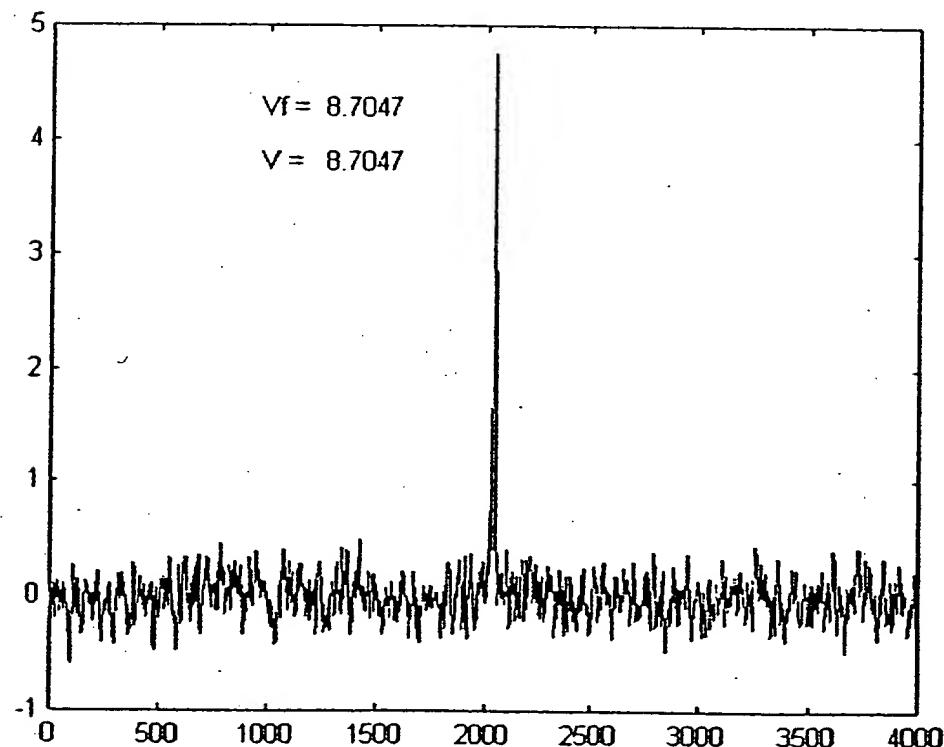


FIGURE 6B